

INFORMATION REPORT

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THIS IS UNEVALUATED INFORMATION 50X1

1. The nitrogen factory in Chorzow, five miles west of Katowice /5016N-1901E/ belongs to the United Inorganic Industry, Inc (Zjednoczenie Przemysly Nierorganicznego) which, in turn, is responsible to the Ministry of Chemical Industry. 50X1
2. Raw materials used in this factory were: coke, water, calcium oxide and sodium chloride. [redacted] 50X1
3. The factory produced:
 - (a) calcium carbide (amount produced unknown), which was used in the production of calcium cyanide and acetylene. The calcium cyanide was produced in the factory and the acetylene was produced elsewhere [redacted] 50X1
To produce the calcium carbide, an electrical-chemical process was used which reduced calcium oxide and combined it with carbon in electrical furnaces at a temperature of 2000° centigrade. Graphite electrodes were used in the electrical furnace.
 - (b) calcium cyanide (amount produced unknown), which was used for fertilizer in Polish agriculture. This chemical was produced by combining pure nitrogen with carbides at a temperature of 6000° centigrade.
 - (c) ammonia (amount produced unknown), which was used in the production of nitric acids in this factory, and in Polish chemical industries. [redacted] 50X1

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- (d) nitric acid (amount produced unknown), which was used in the Polish chemical industries [redacted] This chemical was produced by oxidizing ammonia by air with platinum as catalyst at a temperature of 450° centigrade. 50X1
- (e) ammonium chloride (amount produced unknown), which was used for fertilizer in Poland. This chemical was produced by saturating sodium chloride with ammonia, then adding carbon dioxide at a temperature of 50° centigrade. The precipitated sodium bicarbonate was then filtered and dried. This is a modified Solvay process.
- (f) sodium bicarbonate (amount produced unknown), which was used in the Polish chemical industries. The process used to obtain this chemical was identical to that used to obtain ammonium chloride [see (e) above].
- (g) ammonium nitrate (amount produced unknown), which was used in Polish agriculture. This chemical was produced by a reaction of ammonia with nitric acid solutions.

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